

## Julian SW 3.02 Conversion Instructions

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### 1 Application

The conversion kit is intended for conversion of Julian 8601110 into the current software version 3.02.

### 2 Items Supplied

The conversion kit "SW 3.02 Julian" 8601927, ST includes the following items:

- 1 Conversion instructions SW 3.02
- 2 Instructions for Use
- 1 Julian software version 3.02 on floppy disk
- 1 Label
- 1 IRIA2 conversion kit 3.00

### 3 Tools / Test Equipment

Basic equipment including tools for

#### Software Download

- Service computer
- 7901831 software test programs mt
- 7901808 RS 232 extension cable

#### Download Repair

- 7900790 RS 232 converter (option)

## 4 Procedure

Parameters in boldface type correspond to the respective factory settings of the original delivery.

Depending on the software version installed on the Julian to be converted (version 1.n or 2.n) some parameters might not be present and can therefore not be read out.

### 4.1 Reading Out the Customer Configuration – Service Mode

Read out the following configuration by using the "service2 config" key:

password	<b>on</b>	off
passwd sequence	<b>8055</b>	
min.al.tone	<b>4</b>	
a-cone	<b>no</b>	yes
total hours *only software version 2.n or higher	h	
EDOS hours *only software version 2.n or higher	h	
Vent. hours *only software version 2.n or higher	h	
Safety O <sub>2</sub> *only software version 2.n or higher ("Valves" for Julian International; "Flow Regulator" for US variant only)	<b>Valves</b>	Flow Regulator
bellows detect. * only software version 2.n or higher (if light barrier for bellows detection is fitted)	no	<b>yes</b>
Battery detection *only software version 2.n or higher (set always to "off" in units with software version 1.n)	<b>on</b>	off
Sil. alarmtone	<b>for all</b>	warning only

Press "SpO2/VentEDOS" key, then "IPPV" key, and read out configuration of maximum inspiratory flow:

flow limit	50 L/min)
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Use the "Flow / Temp" key to read out the flow correction configuration:

flow correction	-4.6	<b>0.0</b>	4.6	9.2
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## **4.2 Reading out the Customer Configuration – Standby Configuration**

Defaults					
pulse to.	3				
alarm sound	5				
scale	adult		child		
parameters					
SpO <sub>2</sub> measure.	on		off		
sample-rate	60		200		
CO <sub>2</sub> unit	mmHg	kPa		Vol.%	
record					
list entry					
time interval (min)	1	2	5	10	off
NiBP started	on		off		
warn. started	on		off		
caution started	on		off		
printer entry					
time interval (min)	1	2	5	10	off
NiBP started	on		off		

warn. started	on			off		
caution started	on			off		
interfaces						
COM 2 (Medibus)						
baud rate	1.2			9.6		
parity	even					
data bits	8					
stop bits	1					
COM 1 (printer)						
config. of:	COM1			COM3		
baud rate	1.2	2.4	4.8	9.6	19.6	
parity	odd		even		none	
data bits	7			8		
stop bits	1			2		
COM 3 (Medibus)						
baud rate	1.2			9.6		
alarm limits						
SpO <sub>2</sub> / pulse						
SpO <sub>2</sub>	--			92		
pulse	120			50		
CO <sub>2</sub> / O <sub>2</sub>						
etCO <sub>2</sub>	50			--		
FiO <sub>2</sub>	--			20		
flow / pressure						
MV	--			3.0		
PAW	40			8		

anesthetic agent		
Filso	2.3	--
FiHal	1.5	--
FiSev	3.4	--
FiEnf	3.4	--
FiDes	12.0	--
curves		
Standard screen MAN / SPONT	CO <sub>2</sub> ; PAW; volumeter	
Standard screen IPPV	CO <sub>2</sub> ; PAW; pressures	
Standard screen PCV	CO <sub>2</sub> ; PAW; volumeter	
Standard screen Fresh Gas External *only for devices with with a-cone	CO <sub>2</sub> ; Agas; O <sub>2</sub>	
basic configuration		
time	please set	
date	please set	
language	please set	
tone-sequence	DRÄGER	Euro standard
IPPV settings		
Pmax [Pa*100]	25	
VT [ml]	600	
Frequency [1/min]	12	
Ti:Te	1:2.0	
Tip:Ti [%]	10	
PEEP [Pa*100]	0	
PCV settings		
Pmax [Pa*100]	15	
Frequency [1/min]	12	

Ti:Te	1:2.0
Insp. flow [L/min]	30
PEEP [Pa*100]	0
fresh gas delivery	
O <sub>2</sub> [%]	100
flow [L/min]	2

#### 4.3 Installing IRIA SW 3.00

Install the IRIA software according to conversion instructions 6870762.

Perform test steps according conversion instructions after installing the Julian SW 3.02.

#### 4.4 Installing Julian SW 3.02

1. Install new software according to instructions on DORIS CD-ROM.
2. Mark software version on typeplate.
3. Write serial number of unit on new Instructions for Use.
4. After successful download, switch unit off and on and start "Config Reset" from service mode. Switch unit off and on.
5. Start extended service mode. Carry out service mode configuration as recorded under step 4.1. Pay attention to the instructions.
6. Set the new configuration:

Selftestbreak limited *select "on" (select "off" only if the customer expressly requests an unlimited number of self-test aborts)	on	off
MAC high alarm *Select "insp." (only relevant to US variant)	insp.	exp.
MAC high alarm limit *deactivate alarm limit for Julian International („--"); set to "3.0" for US variant	--	
2 <sup>nd</sup> AGENT alarm *set to "on" only in the US variant	on	off
Alarm symbols	on	off

<b>Flow tubes</b> *Order of displayed virtual flowmeter tubes; set to "N <sub>2</sub> O-O <sub>2</sub> " for Japan only, otherwise set to "O <sub>2</sub> -N <sub>2</sub> O"	<b>O<sub>2</sub> – N<sub>2</sub>O</b>	N <sub>2</sub> O – O <sub>2</sub>
<b>Driving gas</b> *set to "O <sub>2</sub> " only in the US variant	O <sub>2</sub>	<b>Air / O<sub>2</sub></b>

7. Calibrate the pressure sensor.
8. Switch unit off and on.
9. Allow self-test to complete (do not interrupt).
10. Carry out standby configurations as recorded under step 4.2.
11. Carry out the new configurations:

parameters			
<b>press unit</b> *select country-specific, commonly used, unit, e.g. "cmH <sub>2</sub> O" in US variant	<b>Pa*100</b>	mbar	cmH <sub>2</sub> O
<b>flow display</b> *set to "V <sub>t</sub> " in US variant	<b>MV</b>	V <sub>t</sub>	

12. Carry out test steps and tests according to IRIA conversion instructions.